

Navy Case No. 74023

Abstract of the Disclosure

1           A programmable gray-scale liquid crystal display comprises  
2           a polarizer operably coupled to a beam of incident light to  
3           pass a beam of polarized light having a polarization axis. A  
4           sequence of liquid crystal display pixels serially aligned with  
5           the beam of polarized light controls the angle of the  
6           polarization axis. An analyzer passes a gray-scale portion of  
7           the beam of polarized light from the sequence of liquid crystal  
8           display pixels corresponding to the angle of the polarization  
9           axis. Each pixel in the sequence may be independently  
10           programmed to vary the angle of the polarization axis for  
11           calibrating the display to a standard gray-scale and for  
12           correcting faulty pixels with VLSI on-chip driver and interface  
13           circuits.